

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): An electric rotating machine for a vehicle comprising: a rotor core that is fitted to a rotary shaft; a stator core that is concentric with said rotor core and disposed on the outside of said rotor core; and a turning angle detector that is disposed at one shaft end of said rotary shaft;

wherein said rotary shaft itself serves as a magnetic flux interrupting means made of a non-magnetic material for interrupting leakage flux passing onto said rotary shaft as a result of excitation of a rotor coil wound on said rotor core.

2. (withdrawn): An electric rotating machine for a vehicle comprising: a rotor core that is fitted to a rotary shaft; a stator core that is concentric with said rotor core and disposed on the outside of said rotor core; and a turning angle detector that is disposed at one shaft end of said rotary shaft;

wherein a shaft-shaped magnetic flux interrupting means made of a non-magnetic material is employed at a portion on which the rotor side of the turning angle detector is mounted, and said magnetic flux interrupting means is integrally formed with the rotary shaft by one of press fitting and welding.

3. (withdrawn): An electric rotating machine for a vehicle comprising: a rotor core that is fitted to a rotary shaft; a stator core that is concentric with said rotor core and disposed on the outside of said rotor core; and a turning angle detector that is disposed at one shaft end of said rotary shaft;

wherein a part of a rotor side member constituting said turning angle detector is constituted to be magnetic flux interrupting means made of a non-magnetic material.

4. (original): The electric rotating machine for a vehicle according to claim 1, wherein a high-permeability magnetic bypass member is disposed between said rotor core and said turning angle detector.

5. (withdrawn): The electric rotating machine for a vehicle according to claim 2, wherein a high-permeability magnetic bypass member is disposed between said rotor core and said turning angle detector.

6. (withdrawn): The electric rotating machine for a vehicle according to claim 3, wherein a high-permeability magnetic bypass member is disposed between said rotor core and said turning angle detector.

7. (previously presented): The electric rotating machine for a vehicle according to claim 1, wherein said turning angle detector is a resolver having corrugations formed on a curved outer surface of said resolver.

8. (withdrawn): The electric rotating machine for a vehicle according to claim 2, wherein said turning angle detector is a resolver.

9. (withdrawn). The electric rotating machine for a vehicle according to claim 3, wherein said turning angle detector is a resolver.

10. (previously presented): The electric rotating machine for a vehicle according to claim 1, wherein said magnetic flux interrupting means interrupts leakage flux passing from a rotor to a turning angle detector.